

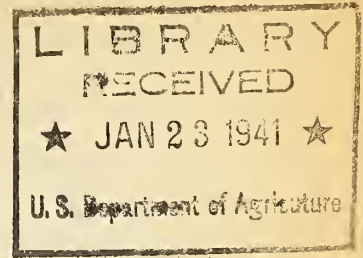
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UNITED STATES DEPARTMENT OF AGRICULTURE
Bureau of Agricultural Chemistry and Engineering
Naval Stores Research Division



HOW TO STOP LEAKS FROM THE SIDE SAMPLER IN A METAL ROSIN DRUM

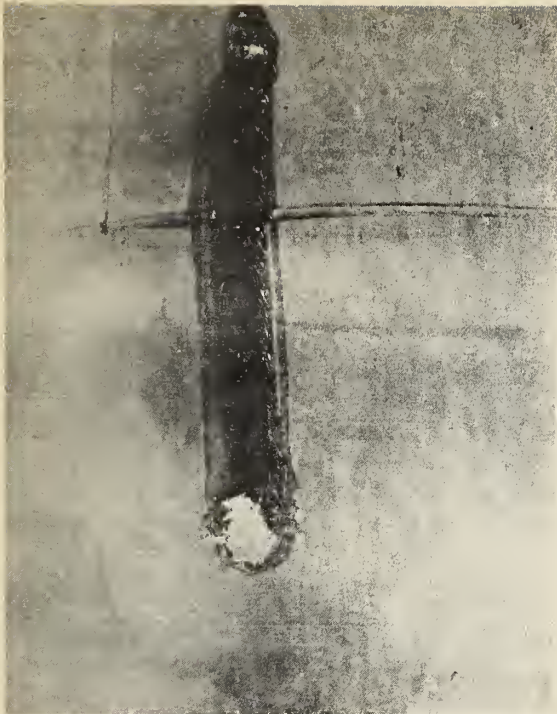
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The metal barrel or drum has come into prominence as a container for rosin. Since drums for rosin are usually equipped with the side sampler, there is difficulty in preventing molten rosin from leaking through the hole or from under the flange of the sample mold holder. This condition has become the problem of many naval stores producers. The well known method of stopping a leak in a wooden barrel was to "clay" it. However, this alone does not work successfully on the metal barrel.

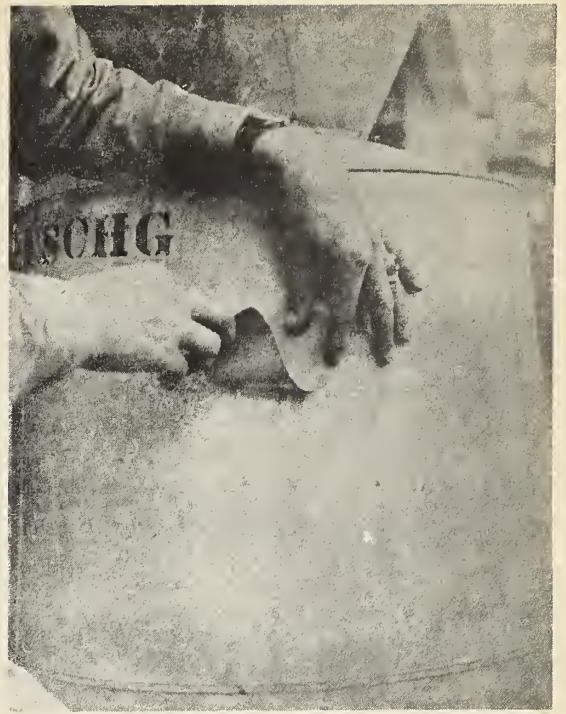
The Naval Stores Station has tested a method which successfully prevents leaking of molten rosin at the sample mold holder. This method consists of filling the indentation of the sample mold holder with wet clay, flush with the surface of the barrel, and pasting gummed paper or cloth tape, that will adhere to a new galvanized surface, over the clayed surface and on to the side of the barrel. The tape should be about three inches wide by six inches long. In some instances it is necessary to apply two pieces of gummed tape, forming a cross, over the hole. Powdered asbestos made into a dough with water can be used in place of clay.

The first application of gummed tape to stop leaks from the side of metal barrels fitted with the sample mold was called to the attention of the Station on December 20, 1935 by Mr. Henry D. Cook, then Florida Cooperative Agent.

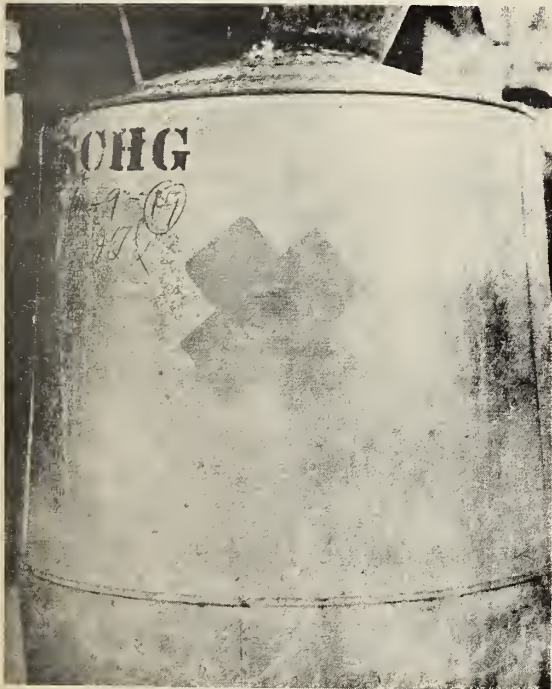
The following pictures illustrate the need, and the application of, the suggested treatment.



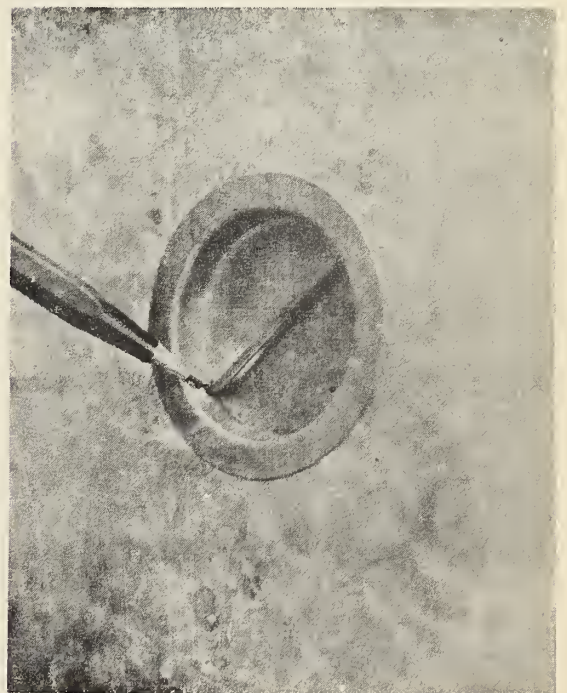
View of side sampler "clayed" but leaking molten rosin.



View of the "clayed" sample mold holder being covered with a piece of gummed paper tape.



View of side sampler properly covered with two pieces of 3" x 6" gummed paper tape.



View of a side sampler inserted through a hole in the side of the metal rosin barrel. The pencil points to the hole in the sample mold holder. Leaks often occur from under the flange.

